

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

28393

7590

07/02/2003

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVE., N.W. WASHINGTON, DC 20005

EXAMINER

NGUYEN, PATRICIA T

ART UNIT

CLASS-SUBCLASS

2817

330-253000

DATE MAILED: 07/02/2003

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/015,887	12/17/2001	Hongwei Wang	1875.1260001	7291

TITLE OF INVENTION: DIFFERENTIAL AMPLIFIER WITH LARGE INPUT COMMON MODE SIGNAL RANGE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	10/02/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents

Alexandria, Virginia 22313-1450 (703)746-4000

Eax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

appropriate. All further con indicated unless corrected b maintenance fee notification	elow or directed otherwise	Patent, advance orders in Block 1, by (a) sp	s and notification secifying a new co	of maintenan	ice fees will be mailed to the current e address; and/or (b) indicating a sep	correspondence address as arate "FEE ADDRESS" for	
28393 75 STERNE, KESSI	E ADDRESS (Note: Legibly mark-u 90 07/02/2003 LER, GOLDSTEIN		·	Fee(s) Tra	tificate of mailing can only be used for insmittal. This certificate cannot ing papers. Each additional paper, wing, must have its own certificate of a	be used for any other	
1100 NEW YORK AVE., N.W. WASHINGTON, DC 20005				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.			
						(Depositor's name)	
					***	(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIR:	ST NAMED INVEN	ror	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/015,887	12/17/2001		Hongwei Wang		1875.1260001	7291	
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nonprovisional	NO NO	\$1300	FOBLI	\$300	TOTAL FEE(S) DUE \$1600	DATE DUE 10/02/2003	
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EXAMIN	IER	ART UNIT	CLASS-SUBCL	ASS			
NGUYEN, PA	TRICIA T	2817	330-25300	0			
1. Change of correspondent CFR 1.363).	ce address or indication of	Fee Address" (37	the names of up	to 3 registe	t front page, list (1)	···········	
Address form PTO/SB/12		·	single firm (ha	ving as a m	(2) the name of a nember a registered names of up to 2		
U "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO E	E PRINTED ON THE	PATENT (print o	r type)			
PLEASE NOTE: Unless as been previously submitted (A) NAME OF ASSIGNED	to the USPIO or is being st	ibmitted under separate	rill appear on the pe cover. Completio	n of this form	ion of assignee data is only appropria n is NOT a substitute for filing an assi OR COUNTRY)	te when an assignment has gnment.	
Please check the appropriate	assignee category or catego	ories (will not be printe	d on the patent)	☐ individ	iual 🚨 corporation or other private g	group entity 🖸 government	
la. The following fee(s) are	enclosed:	4b. Pay	yment of Fee(s):				
☐ Issue Fee	•	□ A cl	neck in the amount	of the fee(s)	is enclosed.	•	
☐ Publication Fee			rment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of Co	opies	☐ The Deposi	Commissioner is l it Account Number	ereby author	ized by charge the required fee(s), or (enclose an extra copy of this	credit any overpayment, to form).	
Commissioner for Patents is	requested to apply the Issue	Fee and Publication F	ee (if any) or to re-	apply any p	reviously paid issue fee to the applicat	ion identified above.	
Authorized Signature)		(Date)	·		4		
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	Publication Fee (if require registered attorney or age ords of the United States Page 1	ed) will not be accept ent; or the assignee of atent and Trademark O	ted from anyone or other party in ffice.				
This collection of informat obtain or retain a benefit it application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI	tion is required by 37 CFR by the public which is to for is governed by 35 U.S.C. to complete, including go to the USPTO. Time we	1.311. The information ile (and by the USPTI 1.22 and 37 CFR 1.14. The adhering, preparing, and II vary depending uporequire to complete to the Chief Information of Commerce, Alexa CTED, FORMS, TO	on is required to O to process) an This collection is d submitting the				

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10/015,887	12/17/2001	Hongwei Wang	1875.1260001	7291
28393 7590 07/02/2			EXAMIN	ER
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVE., N.W.			NGUYEN, PATRICIA T	
WASHINGTON	•		ART UNIT	PAPER NUMBER
			2817	
		DATE MAILED: 07/02/2003		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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	100 NEW YORK AVE., N.W. VASHINGTON, DC 20005		ART UNIT	PAPER NUMBER	
UNITED STAT	ES .				
			D . DD		

DATE MAILED: 07/02/2003

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)					
Aladian of Allawahility	10/015,887	WANG ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Patricia T. Nguyen	2817					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.							
1. This communication is responsive to <u>amendment filed 5/12</u>	<u>2/2003</u> .						
2. The allowed claim(s) is/are <u>2,3,5-11,13-16 and 19-21</u> .							
3. The drawings filed on are accepted by the Examine							
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	ler 35 U.S.C. § 119(a)-(d) or (f).						
 Certified copies of the priority documents have 	been received.						
Certified copies of the priority documents have	been received in Application No	·					
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	cuments have been received in this r	national stage applica	tion from the				
* Certified copies not received:							
5. Acknowledgment is made of a claim for domestic priority ur		onal application).					
(a) The translation of the foreign language provisional a							
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121.						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply co	emplying with the requ	irements noted EXTENDABLE.				
7. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which gives reas	nitted. Note the attached EXAMINER on(s) why the oath or declaration is	'S AMENDMENT or N deficient.	IOTICE OF				
 8.							
(b) ☐ including changes required by the proposed drawing of	correction filed, which has be	een approved by the E	xaminer.				
(c) 🛛 including changes required by the attached Examiner	s Amendment / Comment or in the C	Office action of Paper	No. <u>2</u> .				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.							
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s)							
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No. 6. 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Summa	ndment/Comment	No				

Application/Control Number: 10/015,887

Art Unit: 2817

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The following changes to the drawings have been approved by the examiner:

Figs 1, 2, 5, 6 have been designated as -- Prior Art -- in accordance to the specification page 13, lines 24, 25, page 14, lines 5, 7, or paragraphs 50, 51, 54, 55.

In order to avoid abandonment of the application, applicant must make these above drawing changes.

The following is an examiner's statement of reasons for allowance: prior art does not teach nor render obvious an amplifier that has, in combination with other limitations, a differential switch circuit coupled to the first differential pair and the second differential pair and capable of controlling a first current flow to the first differential pair and a second current flow to the second differential pair; neither does it have the differential offset circuit that has a first source follower coupled between a first input terminal of the differential input and a first amplifying MOSFET of the second differential pair and a second source follower coupled between a second input terminal of the differential input and a second amplifying MOSFET of the second differential pair; nor does it have the method of extending an input signal range of a component that has the step of selecting a subcomponent to process the offset voltage.

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Application/Control Number: 10/015,887

Art Unit: 2817

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia T. Nguyen whose telephone number is (703) 308-1927. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (703) 308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-0142 for regular communications and (703) 305-0142 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

PTN June 26, 2003

> PATRICIA NGUYEN PRIMARY EXAMINER

Patricia Nguyen